QCTS: The Quick Compliance Tool Suite

About QCTS

- Government owned tools
  - ► Leverage existing government expertise and capabilities
  - ► Expedite IUID compliance efforts
  - ► Compatible ship and shore
  - ► Standard, repeatable, reusable
  - ► Facilitate communication across DON and beyond
- QCTS is in use throughout DON and DoD across numerous systems to achieve cost benefits
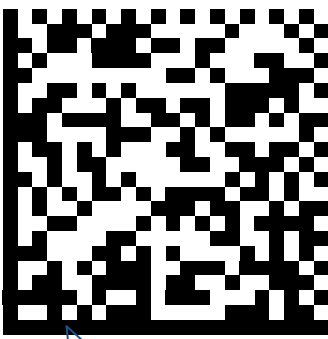- Tools are being leveraged for use outside the IUID community

QCTS Components

- IUID Compliance Checkers
  - ► Online
  - ► Handheld
- Integrated QCTS (iQ)
  - ► Handheld Support
  - ► IUID Marking
- Field Receipt and Acceptance (R&A)
- Code Libraries and Web Services implemented through APIs

QCTS IUID Compliance Checker

- Determines whether a 2D data matrix is IUID compliant
  - ► Reflection of IUID policy
  - ► Checks 54+ IUID permutations
- Upload IUID image file
- Includes Registry Status Checking
  - ► Single and Batch
- Available on OSD DPAP website

I'm IUID compliant...Trust me.

QCTS Mobile Compliance Checker

- Compatible with Windows Mobile based handhelds
- Includes all functionality of QCTS IUID Compliance Checker
  - ➤ Will check for registration status if wireless network is available
- Includes reporting functionality

Integrated QCTS (iQ)

- Modular data management system
  - ► Desktop, handheld, web interfaces
    - Fully automated synchronization
  - ► Allows users to design handheld applications
  - ► Interfaces to a variety of systems via flat file imports and exports
- IUID capabilities
  - ► Label and plate generation and direct part marking integrated with Bartender ©
  - ► Scanning and verification capabilities
  - ► Export data for registration

iQ Handheld Applications

- Expedite the job of marking personnel
- Quickly identify items using
  - ➤ Filtering capabilities
  - ➤ AIT (Scanning Barcodes)
- Compatible with IUID as well as other 2D and linear barcodes
- Support marking, inventory verification and opportunistic marking scenarios
- Associate UII with pedigree data
- Synchronize with iQ server or desktop for automatic registration of items
- Tested to handle 1,000,000+ items

Field Receipt and Acceptance Tool

- Field Receipt and Acceptance (R&A) Tool
  - ► Add-on to WAWF
  - ► Provides organizations ability to use AIT to streamline and accelerate acceptance functionality
  - ► Moves R&A from the workstation to the handheld
  - ► Process integrates IUID seamlessly
- Basic features and capabilities
  - ► Supports multiple locations
  - ► CAC enabled
  - ► Reads IUID and other 2D and linear barcodes

QCTS APIs

- QCTS functionality is available for incorporation into new and existing AISs
  - ► Downloadable Code Libraries
  - ► Web Services
- APIs (Application Programming Interfaces) are used to access this functionality
  - ► Read and validate IUID marks
  - ► Extract the UII
  - ► Retrieve the corresponding pedigree data
  - ► Update the AIS database
- Libraries available in Java, JavaScript, and .NET
- Example code provided to ease integration
- Can be used for web-based, desktop or handheld applications

Impact of QCTS APIs

- Functionality of QCTS tools can be reused to benefit DON:
  - ► Lead to consistency
  - ► Ease implementation by leveraging existing, repeatable processes and tools
  - ► Help coordinate activities and agency
  - ► Reduce stovepipe solutions to save time and money
  - ► Ease the dissemination of IUID requirement and process updates through centralization

- QCTS Functionality has been reused in new and existing business systems
  - ► ILO RAG
  - ► HILT
  - ► MFOM
  - ► PHIMS
  - ► BCS

QCTS Web Site

- QCTS tools and information are located on the QCTS web site
- Access to full suite of tools at www[...]

Questions?